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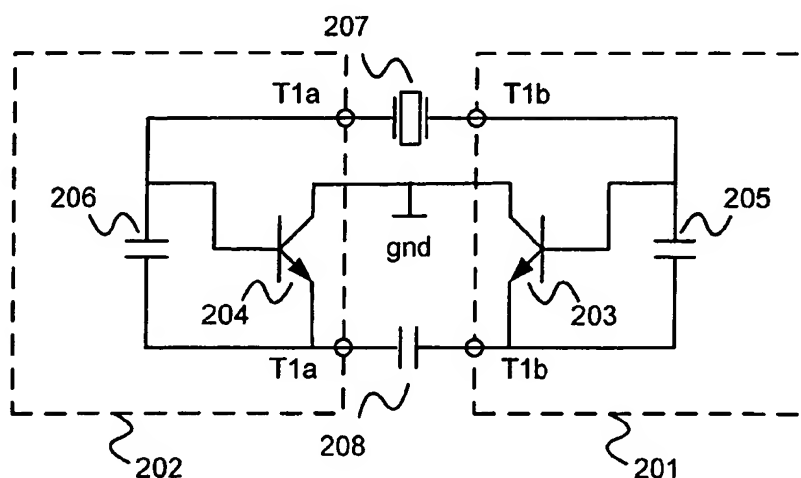
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(54) Title: AN OSCILLATOR AND AN INTEGRATED CIRCUIT



(57) Abstract: A balanced crystal oscillator circuit comprising: a piezoelectric element X_{tal} (207; 215; 222,221; 313); a first oscillator subcircuit (202; 210; 218; 302) incorporating a transistor (204; 212; 220; 304); and a second oscillator subcircuit (201; 209; 217; 301) incorporating a transistor (203; 211; 219; 303); wherein the transistors each have different types of transistor terminals (C,B,E; D;G;S), and wherein the oscillator subcircuits are configured with at least three interconnections. Each interconnection comprise a pair of like type of transistor terminals; wherein a first of said interconnections constitutes a connection to a ground reference (gnd); a second of said interconnections is via a first resonator element (207; 215; 223; 313); and a third of said interconnections is via a second resonator element (208; 216; 224; 314); said first and second circuits are arranged to interact by means of said first and second resonator elements to form a balanced oscillator signal. A dual common base or a dual common collector configuration is preferred.

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